

Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No. 98,736

Serial No. 09/218,913

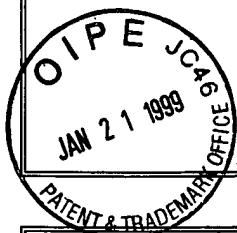
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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Applicant: Roderick L. Hall, et al.

Filing Date: December 22, 1998

Group: To be assigned



## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
ne	1	EP 0 439 442 B1	03/06/96	EPO				
ne	2	WO 93/14120	07/22/93	PCT				
ne	3	WO 96/03503	02/26/97	PCT				
ne	4	WO 95/18830	07/13/95	PCT				
ne	5	WO 96/35788	11/14/96	PCT				
ne	6	WO 98/33920	08/06/98	PCT				

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date
ne	7	5,106,833	04/21/92	Bronze, Jr. et al.	514	12	
ne	8	5,223,482	07/29/93	Schilling, Jr. et al.	514	12	
ne	9	5,312,736	05/17/94	Rasmussen, et al.	435	69.2	
ne	10	5,403,484	04/04/95	Ladner, et al.	435	235.1	
ne	11	5,436,153	07/25/95	Sprecher, et al.	435	6	
ne	12	5,441,931	08/08/95	Sprecher, et al.	514	2	
ne	13	5,541,288	07/30/96	Nakano, et al.	530	324	
ne	14	5,576,294	11/19/96	Norris, et al.	514	12	
ne	15	5,663,143	09/02/97	Ley, et al.	514	12	
ne	16	5,677,146	10/14/97	Sprecher, et al.	435	69.1	
ne	17	5,728,674	03/17/98	Sprecher, et al.	514	2	
ne	18	5,731,412	03/24/98	Shimomura	530	350	
ne	19	5,736,364	04/07/98	Kelley, et al.	435	69.7	
ne	20	5,747,449	05/05/98	Lasters, et al.	514	12	
ne	21	5,786,328	07/28/98	Dennis, et al.	514	12	
ne	22	5,795,865	08/18/98	Markland, et al.	514	12	
ne	23	5,834,244	11/10/98	Dennis, et al.	435	69.2	

## OTHER DOCUMENTS - Including Author, Title, Date, Pertinent Pages, Etc.

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Examiner

N. Steel

Date Considered

12/13/02

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## U.S. PATENT DOCUMENTS


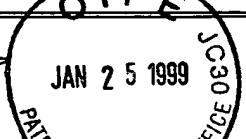
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date

## OTHER DOCUMENTS - Including Author, Title, Date, Pertinent Pages, Etc.

NE 1	Newton, B.B. and Hall, R.L. Mucociliary clearance in the guinea-pig is increased by ouabain (i.v.) and by hypertonic saline (14.4%) aerosol. in <i>Cilia, Mucus and Mucociliary Interactions</i> . Ed. Baum, G.L., Priel, Z., Roth, Y., Liron, N., Ostfeld, E., Marcel Dekker. New York. 1998.
NE 2	Wills, P.J., Garcia Suarez, M.J., Rutman, A., Wilson, R., and Cole, P.J. The ciliary transportability of sputum is slow on the mucus-depleted bovine trachea. <i>American Journal of Respiratory &amp; Critical Care Medicine</i> 151(4):1255-1258, 1995.
NE 3	Wills, P.J., Hall, R.L., Chan, W.M., and Cole, P.J. Sodium chloride increases the ciliary transportability of cystic fibrosis and bronchiectasis sputum on the mucus-depleted bovine trachea. <i>Journal of Clinical Investigation</i> 97(11):9-13, 1997.
NE 4	Mathews, L.W., Spector, S., Lemm, J., and Potter, J.L. Studies on Pulmonary secretions. I. The Overall Chemical Composition of Pulmonary Secretions from Patients with Cystic Fibrosis, Bronchiectasis, and Laryngectomy. <i>American Review of Respiratory Disease</i> 88:199-204, 1963.
NE 5	Potter, J.L., Matthews, L.W., Spector, S., and Lemm, J. Studies on pulmonary secretions. II. Osmolality and the ionic environment of pulmonary secretions from patients with cystic fibrosis, bronchiectasis, and laryngectomy. <i>American Review of Respiratory Disease</i> 67(1):83-87, 1967.
NE 6	Tomkiewicz, R.P., App, E.M., Zayas, J.G., Ramirez, O., Church, N., Boucher, R.C., Knowles, M.R., and King, M. Amiloride inhalation therapy in cystic fibrosis. Influence on ion content, hydration, and rheology of sputum. <i>American Review of Respiratory Disease</i> 148(4 Pt 1):1002-1007, 1993.
NE 7	Robinson, M., Hemming, A.L., Regnis, J.A., Wong, A.G., Bailey, D.L., Bautovich, G.J., King, M., and Bye, P.T.P. Effect of increasing doses of hypertonic saline on mucociliary clearance in patients with cystic fibrosis. <i>Thorax</i> 52(10):900-903, 1997.
NE 8	App, E.M., King, M., Helfesrieder, R., Kohler, D., and Matthys, H. (1990) Acute and long-term amiloride inhalation in cystic fibrosis lung disease. A rational approach to cystic fibrosis therapy. <i>American Review of Respiratory Disease</i> 141, 605-612.
NE 9	Newton, B.B., Poll, C.T. and Hall, R.L. Inhalation of amiloride increases tracheal mucus velocity and decreases tracheal potential difference in the guinea-pig. <i>Pediatric Pulmonology</i> S17, Abs 364, 1998.
NE 10	McAulay, A.E., Crossley, J., Place, G.A. and Poll, C.T. Effect of UTP on ion transport in tertiary cultures of human bronchial epithelial (HBE) cells. <i>Pediatric Pulmonology</i> S 17, Abs 141, 1998.
NE 11	Vallet, V., Chraibi, A., Gaeggeler, H.P., Horisberger, J.D., and Rossier, B.C. An epithelial serine protease activates the amiloride-sensitive sodium channel. <i>Nature</i> 389(6651):607-610, 1997.

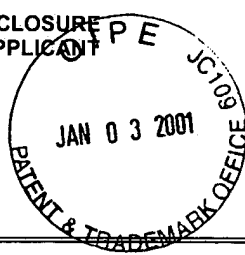
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NE 12	Chraibi, A., Vallet, V., Firsic, D., Hess, S.K., and Horisberger, J.D. Protease modulation of the activity of the epithelial sodium channel expressed in xenopus oocytes. <i>Journal of General Physiology</i> 111(1): 127-138, 1998.
NE 13	Delaria, K.A., Muller, D.K., Marlor, C.W., Brown, J.E., Das, R.C., Rocznik, S.O. and Tamburini, P.P. Characterization of placental bikunin, a novel serine protease inhibitor. <i>Journal of Biological Chemistry</i> 272(18):12209-12214, 1997.
NE 14	Marlor, C.W., Delaria, K.A., Davis, G., Muller, D.K., Greve, J.M., and Tamburini, P.P. Identification and cloning of human placental bikunin, a novel serine protease inhibitor containing two kunitz domains. <i>Journal of Biological Chemistry</i> 272(18):12202-12208, 1997.
NE 15	O'Riordan, T.G., Otero, R., Mao, Y.M., Lauredo, I., and Abraham, W.M. Elastase contributes to antigen-induced mucociliary dysfunction in ovine airways. <i>American Journal of Respiratory &amp; Critical Care Medicine</i> 97(5):1522-1528, 1997.
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<b>Examiner</b> 	<b>Date Considered</b> 	<b>Date Considered</b> 12/13/02
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**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
NE	1.	5,854,396	12/29/98	Shimomura, et al.	530	350

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes No
NE	2.	WO 92/15605	9/17/92	PCT	X
NE	3.	WO 97/33996	9/18/97	PCT	X
NE	4.	0 563 389	10/6/93	EPO	X

**OTHER DOCUMENTS - Including Author, Title, Date, Pertinent Pages, Etc.**

NE	5.	Lindberg, S., et al. (1991) "Tissue kallikrein stimulates mucociliary activity in the rabbit maxillary sinus." <i>Acta Oto-Laryngologica</i> 111 (6) 1126-32.
<del>NE</del>	6.	<del>Newton, et al., "Mucociliary Clearance in the Guinea Pig is Increased by Ouabain (i.v.) and by Hypertonic Saline (14.4%) Aerosol," <i>Cilia, Mucus, and Mucociliary Interactions</i>, United Kingdom. See IDS paper #5</del>
NE	7.	Rasche B., et al. (1975) "Über die Wirkung des Proteaseinhibitors Aprotinin auf die Lungenfunktion sowie die inhibitorische Aktivität des Sputums bei Patienten mit chronisch-obstruktiver Bronchitis" <i>Arzneimittel-Forschung</i> 25 (1) 110-116, Germany.
NE	8.	Schmidt, O. P. (1977) "Drug therapy in cases of bronchosecretory disorders," <i>MEDIKAMENTÖSE THERAPIE BRONCHOSEKRETORISCHER STORUNGEN.</i> <i>Medizinische Klinik</i> 72 (5) 145-160, Germany.

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